

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) Facility for producing synthesis gas from a solid feedstock including organic matter, said facility including means for circulating a heat-carrying solid providing at least some of the heat necessary for such production, a zone Z1 including pyrolysis and gasification means, a zone Z2 including separation means, a line for supplying gaseous and solid effluents from zone Z1 to zone Z2, a zone Z3 including gasification means, a zone Z4 including separation means, and a zone Z5 including combustion means, characterized in that zone Z1 has means for pyrolysis and gasification of said feedstock in a transported fluidized bed, in that zone Z2 has means for at least partial separation of the effluents from zone Z1 into an essentially gaseous phase and into an essentially solid phase, in that zone Z3 is supplied at least in part with said essentially solid phase and includes dense fluidized bed gasification means for gasification of said essentially solid phase, in that zone Z4 includes means for separating the effluents coming from zone Z3 into an essentially gaseous phase and into an essentially solid phase, and in that zone Z5 includes means for combusting the essentially solid phase coming from zone Z3 and means for transferring the heat-carrying solid coming from said combustion into zone Z1.

2. (Original) Facility according to Claim 1 wherein zone Z5 has means for combusting the essentially solid phase coming from zone Z4.

3. (Previously Presented) Facility according to Claim 1 wherein said pyrolysis/gasification zone Z1 includes means for supplying a reactive carrier gas, means for introducing said feedstock, and means for injecting the heat-carrying solid.

4. (Previously Presented) Facility according to Claim 1 wherein said combustion zone Z5 has means for introducing an oxidizing gas and means for transferring the heat-carrying solid coming from said combustion, to zone Z1.

5. (Previously Presented) Facility according to Claim 1 including means for transferring the essentially gaseous phase coming from zone Z2, to separation zone Z4.

6. (Previously Presented) Facility according to Claim 1 wherein said zone Z5 includes:

- a first zone Z5 including transported fluidized bed combustion means for combusting part of the essentially solid phase coming from zone Z3 and/or Z4,
- a zone Z6 for separating the gaseous phase and the essentially solid phase coming from said combustion,
- a zone Z7 including dense fluidized bed combustion means for combusting the essentially solid phase coming from zone Z6 and means for transferring the heat-carrying solid coming from said combustion, to zone Z1.

7. (Previously Presented) Facility according to Claim 1 wherein zone Z3 includes reactive carrier gas supply means.

8. (Previously Presented) Facility according to Claim 1 wherein zone Z3 includes means for introducing the feedstock.

9. (Previously Presented) Facility according to Claim 1 wherein said zone Z5 includes means for supplying an additional fuel.

10-19. (Canceled).

20. (Previously Presented) Facility according to Claim 2 wherein said pyrolysis/gasification zone Z1 includes means for supplying a reactive carrier gas, means for introducing said feedstock, and means for injecting the heat-carrying solid.

21. (Previously Presented) Facility according to Claim 2 wherein said combustion zone Z5 has means for introducing an oxidizing gas and means for transferring the heat-carrying solid coming from said combustion, to zone Z1.

22. (Previously Presented) Facility according to Claim 2 including means for transferring the essentially gaseous phase coming from zone Z2, to separation zone Z4.

23. (Previously Presented) Facility according to Claim 2 wherein said zone Z5 includes:

- a first zone Z5 including transported fluidized bed combustion means for combusting part of the essentially solid phase coming from zone Z3 and/or Z4,
- a zone Z6 for separating the gaseous phase and the essentially solid phase coming from said combustion,
- a zone Z7 including dense fluidized bed combustion means for combusting the essentially solid phase coming from zone Z6 and means for transferring the heat-carrying solid coming from said combustion, to zone Z1.

24. (Previously Presented) Facility according to Claim 2 wherein zone Z3 includes reactive carrier gas supply means.

25. (Previously Presented) Facility according to Claim 2 wherein zone Z3 includes means for introducing the feedstock.

26. (Previously Presented) Facility according to Claim 2 wherein said zone Z5 includes means for supplying an additional fuel.

27. (New) Facility according to Claim 1, further comprising a line directly connecting said zone Z3 to said zone Z5 for transferring the essentially solid phase coming from zone Z3 to zone to zone Z5.